

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P401087

Luminaire Tested: **ENV-SA1B-727-U-T4W-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1B-727-U-T4W-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2138 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

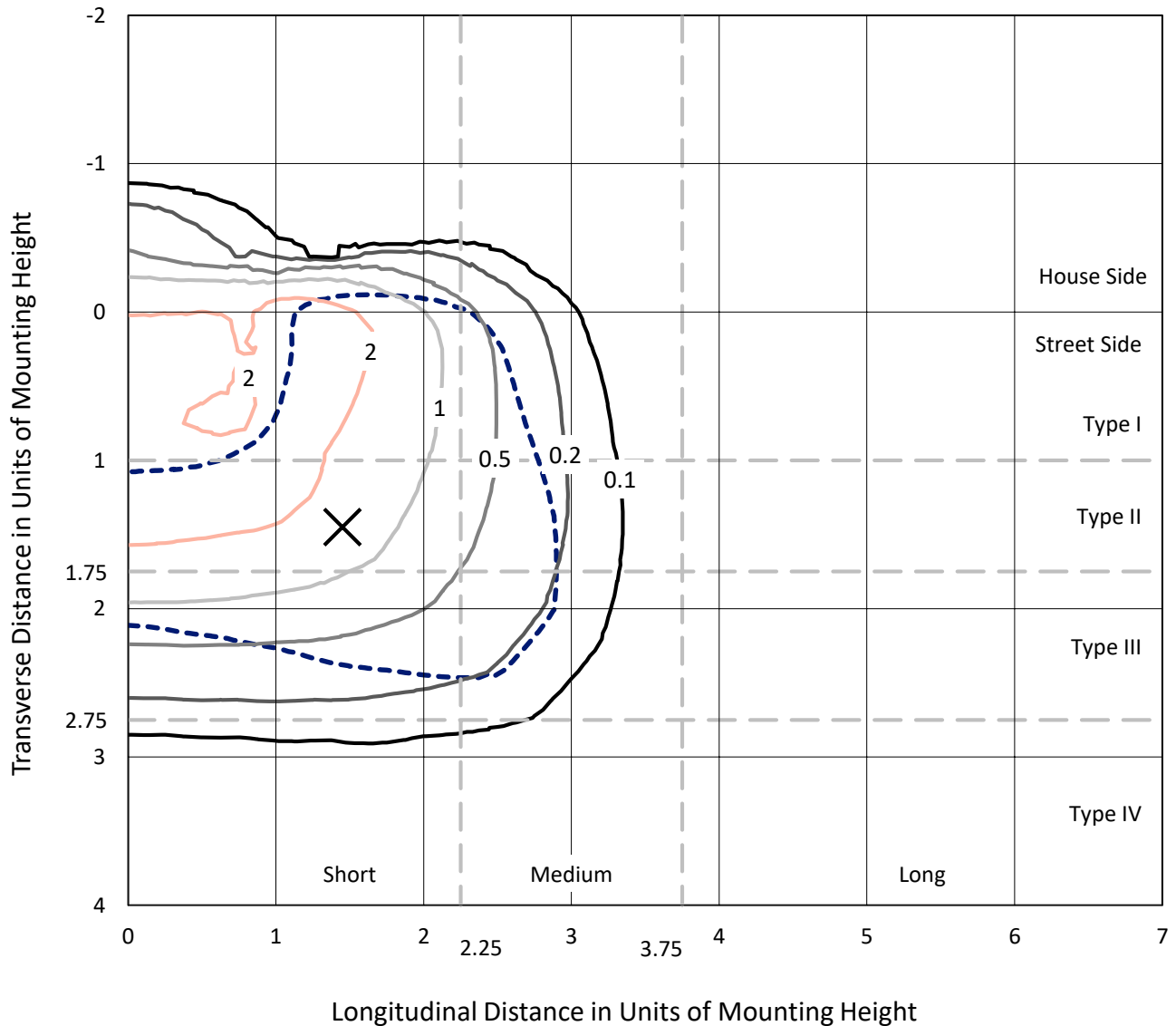
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

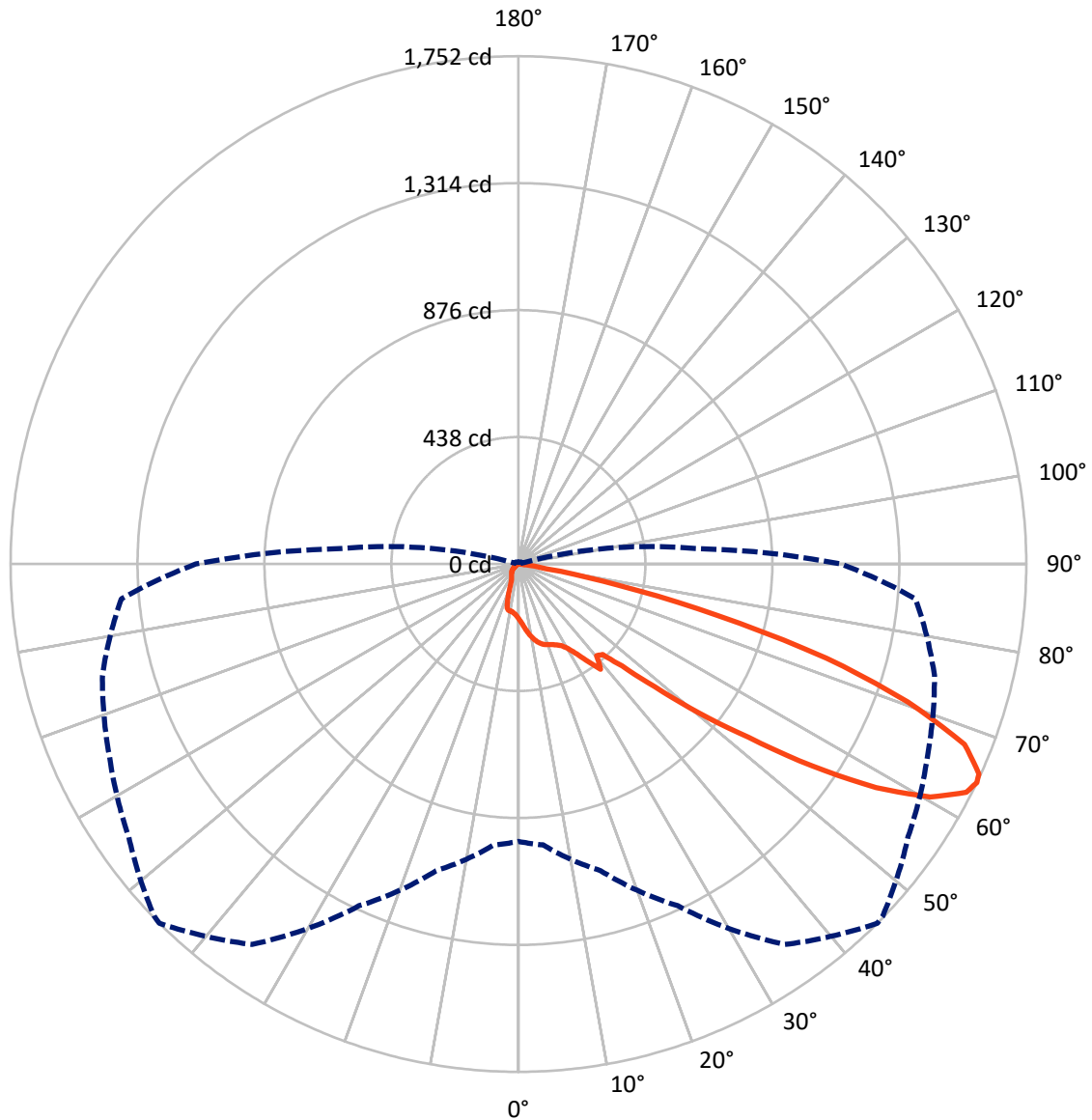
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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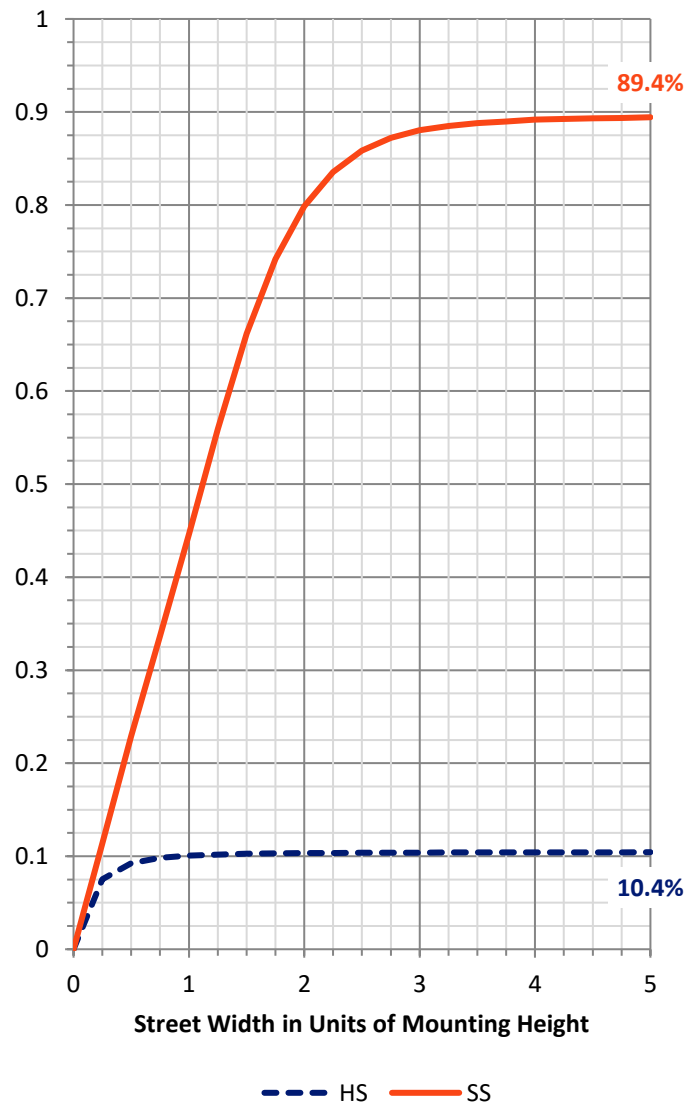
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	225.6	0.0	225.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	1912.4	0.0	1912.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	2138.0	0.0	2138.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	0.9
10°-20°	59.9	2.8
20°-30°	97.6	4.6
30°-40°	155.0	7.2
40°-50°	295.2	13.8
50°-60°	608.3	28.5
60°-70°	679.4	31.8
70°-80°	214.6	10.0
80°-90°	8.7	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2138.0	100.0
0°-180°	2138.0	100.0



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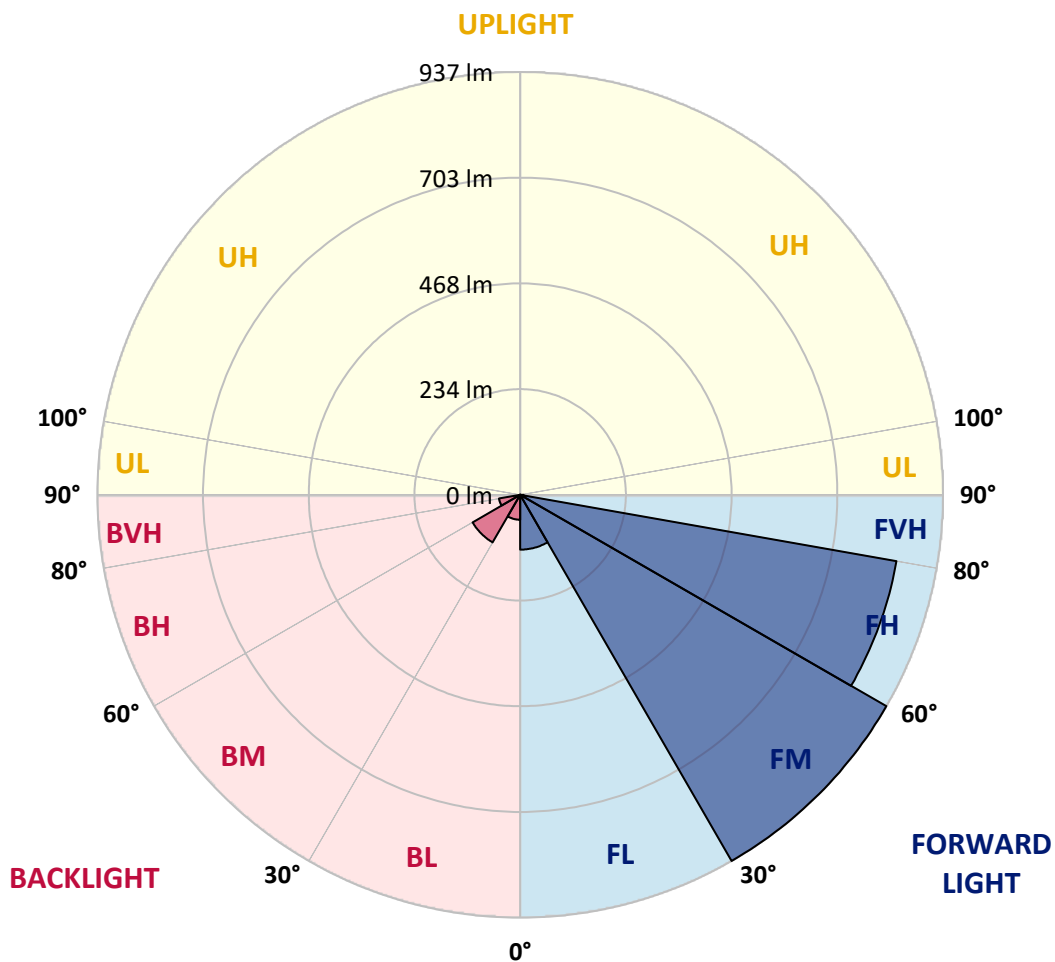
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.4	5.7			
FM	(30°-60°)	936.8	43.8			
FH	(60°-80°)	846.5	39.6			G1/1800
FVH	(80°-90°)	7.7	0.4			G0/10
BL	(0°-30°)	55.3	2.6	B0/110		
BM	(30°-60°)	121.7	5.7	B0/220		
BH	(60°-80°)	47.6	2.2	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5
2.5°	209.1	209.9	208.7	207.0	205.4	202.5	203.0	199.3	196.4	194.4	191.1
5°	235.6	235.2	232.7	229.0	225.4	220.1	219.3	213.6	207.4	200.9	194.8
7.5°	262.5	261.2	258.8	253.9	247.0	240.0	238.0	229.9	220.9	211.1	200.5
10°	284.5	283.6	280.8	275.5	267.3	256.8	256.8	245.3	233.5	221.7	209.1
12.5°	302.4	301.6	298.3	291.8	282.0	272.6	271.4	261.2	248.2	234.3	218.8
15°	313.4	312.6	308.9	301.6	293.0	284.5	283.2	273.5	261.6	245.7	227.8
17.5°	316.3	315.4	312.6	306.1	299.5	292.2	290.6	282.0	271.8	255.5	237.2
20°	315.0	313.4	311.8	306.5	301.2	296.3	295.5	289.4	280.4	266.5	247.0
22.5°	311.8	310.1	308.9	305.2	302.4	302.0	301.2	297.5	291.8	280.0	261.6
25°	310.5	309.3	308.1	305.7	305.2	309.3	308.9	308.5	306.1	295.9	276.7
27.5°	317.5	317.1	314.2	310.1	312.2	319.1	319.5	321.5	319.9	313.4	298.7
30°	341.9	339.9	333.4	324.4	329.7	338.7	340.3	346.8	347.2	348.0	328.1
32.5°	374.9	371.7	360.7	349.3	352.5	369.2	369.6	379.8	401.4	388.0	344.0
35°	397.8	393.7	377.0	370.9	387.2	413.7	417.3	438.1	439.7	390.8	342.7
37.5°	461.7	455.6	425.1	388.0	403.9	460.9	465.0	461.3	427.1	386.8	360.3
40°	547.3	541.6	514.3	452.0	407.1	415.7	417.7	428.7	435.3	415.3	416.5
42.5°	658.6	651.2	623.1	546.9	458.1	426.7	430.8	453.2	496.0	505.4	553.4
45°	772.3	768.2	739.7	657.4	551.0	501.7	503.7	531.0	607.6	666.7	707.5
47.5°	883.5	884.4	859.9	790.2	686.3	631.7	629.2	664.7	761.7	803.7	845.2
50°	1040.5	1039.6	996.0	952.8	871.7	806.9	802.9	822.8	916.2	931.6	996.0
52.5°	1219.0	1218.1	1152.5	1132.1	1097.9	993.6	1004.6	987.5	1054.7	1082.4	1173.7
55°	1303.7	1296.4	1268.7	1294.3	1335.1	1230.4	1228.7	1163.5	1216.1	1239.7	1324.9
57.5°	1295.2	1298.0	1324.5	1409.7	1543.4	1455.7	1458.2	1337.1	1367.7	1382.4	1444.7
60°	1246.7	1248.7	1310.2	1452.1	1647.3	1632.2	1623.6	1499.3	1479.4	1473.3	1503.0
62.5°	1108.1	1108.9	1208.8	1390.9	1646.5	1734.1	1725.9	1613.5	1551.1	1512.0	1457.8
64°	957.3	972.8	1095.1	1300.9	1602.0	1752.0	1747.5	1641.2	1557.6	1485.9	1374.6
65°	833.4	856.7	1004.6	1221.0	1551.9	1745.9	1740.6	1636.3	1548.7	1437.0	1288.6
67.5°	568.5	580.7	713.6	961.0	1360.8	1659.9	1658.3	1573.5	1451.3	1241.4	1011.1
70°	335.4	344.4	442.6	670.8	1045.7	1426.0	1447.6	1417.0	1204.7	891.7	643.9
72.5°	104.3	109.6	195.2	372.5	685.5	1111.0	1139.1	1117.1	877.0	557.1	357.0
75°	39.1	40.8	64.4	161.8	341.1	710.3	718.9	744.6	534.3	294.2	156.1
77.5°	21.6	22.0	31.8	60.7	150.0	348.9	357.0	353.7	284.1	139.0	49.7
80°	10.6	11.0	15.5	26.9	58.3	98.6	117.0	154.5	100.3	68.5	15.9
82.5°	3.7	3.3	6.9	12.2	19.6	26.5	29.8	42.8	42.0	37.5	5.7
85°	0.0	0.0	0.4	0.4	0.4	0.8	0.8	5.3	10.6	12.2	1.6
87.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5
2.5°	189.5	188.7	185.8	183.0	180.9	178.5	178.1	176.5	176.1	176.1	176.1
5°	191.5	189.1	183.8	179.3	175.2	171.6	169.9	168.3	167.1	166.7	166.7
7.5°	196.0	192.4	183.8	177.3	171.2	166.7	164.2	162.6	161.4	161.4	161.4
10°	202.5	196.8	186.2	177.3	169.9	164.2	160.6	158.1	156.5	156.1	156.5
12.5°	210.7	203.4	190.3	179.3	170.8	163.4	155.7	141.4	132.0	126.7	125.9
15°	218.4	209.9	194.8	182.2	172.0	155.7	127.6	105.6	90.9	86.4	85.6
17.5°	227.0	218.0	200.9	186.2	167.5	125.5	90.9	72.5	69.7	70.5	70.5
20°	237.6	227.0	207.4	190.3	144.3	89.3	66.4	64.0	64.8	66.4	66.4
22.5°	249.8	238.4	216.4	187.9	110.0	65.2	60.7	61.1	61.9	63.6	63.6
25°	265.7	253.9	226.2	169.5	76.6	57.1	57.5	57.9	59.1	60.7	61.1
27.5°	289.4	275.1	238.0	142.2	57.9	53.0	53.4	54.6	55.8	57.9	57.9
30°	314.6	297.1	248.6	109.6	50.5	48.5	48.9	50.1	52.2	53.8	54.6
32.5°	325.6	310.1	250.6	75.0	46.9	44.8	44.0	45.2	46.9	48.5	48.9
35°	331.7	325.2	240.9	54.2	44.0	41.6	39.9	39.5	39.9	41.2	41.2
37.5°	361.9	357.4	221.3	46.5	41.2	38.7	36.3	34.2	33.4	33.0	33.4
40°	419.8	410.0	195.6	42.8	38.7	35.9	32.6	29.3	26.5	25.3	25.3
42.5°	547.3	498.0	158.9	40.3	36.3	33.0	28.1	23.6	20.4	19.6	19.6
45°	684.7	607.2	119.4	38.3	33.8	29.8	23.6	18.7	15.9	15.1	15.1
47.5°	816.7	687.9	83.5	35.9	31.0	26.1	19.6	15.1	13.0	12.6	12.6
50°	955.3	758.0	58.3	33.0	28.1	22.4	15.9	12.2	11.0	11.0	11.0
52.5°	1090.2	809.8	42.8	30.2	24.5	18.7	13.4	11.0	10.2	10.2	10.2
55°	1192.1	829.8	32.6	26.5	20.8	15.9	12.2	10.6	9.8	9.4	9.4
57.5°	1260.1	813.0	26.5	22.0	17.5	13.9	11.0	9.8	9.0	8.6	8.6
60°	1258.5	757.6	21.2	17.9	14.3	11.8	10.2	9.0	8.2	7.7	7.7
62.5°	1184.7	667.6	16.7	14.3	11.8	10.2	9.0	8.2	7.3	6.9	6.5
64°	1112.6	611.7	14.3	12.2	10.6	9.4	8.2	7.3	6.5	5.7	5.7
65°	1034.3	558.7	13.0	11.0	9.4	8.6	7.7	6.9	5.7	4.9	4.9
67.5°	786.6	413.7	10.6	8.6	7.3	6.9	6.1	5.3	4.1	3.3	3.3
70°	510.6	267.8	9.0	6.9	6.1	6.1	5.7	4.5	3.3	2.9	2.4
72.5°	261.6	133.3	7.3	5.7	5.3	5.3	4.9	3.7	2.9	2.4	2.0
75°	110.9	54.2	6.1	4.9	4.5	4.1	3.7	3.3	2.4	2.0	2.0
77.5°	38.7	20.4	5.7	4.9	3.7	3.3	3.3	3.3	3.3	2.9	2.4
80°	13.0	7.7	3.7	3.7	4.1	4.5	4.5	4.1	4.5	3.7	2.9
82.5°	5.3	2.9	1.2	1.6	2.9	3.3	3.7	3.7	3.7	2.9	2.4
85°	1.2	0.8	0.8	1.2	1.2	1.6	1.6	2.0	2.0	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	0.8	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)